

B²

9. (Amended) A radiographic camera comprising:
a housing containing a radioactive source surrounded by a radiation shield assembly, the shield assembly including,
a radiation shield having a first shield end and a second shield end; and
an endplate having a first surface that is secured to the first shield end.

B³

16. (Amended) A radiographic camera apparatus, comprising:
a housing having an interior chamber with a first opening and a second opening formed therein;
a lock assembly provided at the first opening;
a connector assembly provided at the second opening;
a conduit within the housing that communicates with the lock assembly and the connector assembly, a pathway formed by the conduit to an exterior of the housing through the connector assembly; and
a radiation shield surrounding the conduit within the housing, the radiation shield secured to the housing.

B⁴

22. (Amended) A connector assembly for a radiographic camera, comprising:
a housing containing a radioactive source in a pathway surrounded by a radiation shield;
a first end of the housing, having a first opening at a first endplate in communication with the pathway;
a radiation shield protector adapted to selectively block and unblock the first opening;
a front plate adjacent the radiation shield protector, the radiation shield protector provided between the first endplate and the front plate, the front plate having a second opening aligned with the first opening and adapted to receive a guide cable fitting that allows the radiation shield protector to unblock the first opening and expose the radioactive source.

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27. (Amended) A radiographic camera apparatus, the apparatus comprising:

- a housing having an interior chamber, a first opening and a second opening formed by the housing;
- a lock assembly in communication with the housing at the first opening;
- a front plate having an interior and an exterior surface and defining a hole, the front plate in communication with the housing at the second opening to align the hole with the second opening;
- an conduit within the housing and in communication with the lock assembly at one end and the front plate at the other end, a pathway formed by the conduit to an exterior of the housing through the front plate; and
- a rotor rotatably attached to the interior surface of the front plate, the rotor defining a first rotor hole aligned with the second opening and having a radiation shield therein, and the rotor defining a second rotor hole for alignment with the second opening upon rotation of the rotor.

B6

32. (Amended) A connector assembly for a radiographic camera, comprising:

- a connection element adapted to engage with a guide cable, the connection element including an opening aligned with a radiation source opening in the camera through which a radiation source can pass;
- a radiation shield protector that may be moved between blocking and unblocking positions, where in the blocking position the radiation shield protector blocks the radiation source opening and in the unblocking position the radiation shield protector does not block the radiation source opening; and
- a lock that is adapted to lock the radiation shield protector in the blocking position and is adapted to unlock the radiation shield protector upon activation of a key located outside the camera to allow the radiation shield protector to move to the unblocking position.

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37. (Amended) A method of operating a radiation camera, comprising:

- unlocking a radiation shield protector that blocks a radiation source opening in the camera;